

REMARKS

Claims 1, 3–9, 11, 12, 14–16, 20, 21, 25, 26, 28, 31, and 38–68 are pending, with claims 1, 12, 16, 20, 28, 31, 50, and 65 being independent. Claims 2, 12, 16, 28, and 31 have been amended. Claims 38–68 have been added. Reconsideration and allowance of the above-referenced claims are respectfully requested.

Allowable Subject Matter

Applicants gratefully acknowledge that claims 20, 21, 25, and 26 are identified as allowed by the Examiner.

Claim Objections

Independent claim 16 stands objected to for certain informalities. In particular, the Official Action alleges a duplicate limitation in independent claim 16. Applicant has amended independent claim 16 by deleting one of the alleged duplicates. Thus, withdrawal of the objection is respectfully requested.

Rejections Under 35 U.S.C. § 112

Claims 1, 3–9, and 11

Claims 1, 3–9, and 11 stand rejected under 35 U.S.C. § 112, first paragraph as allegedly failing to comply with the enablement requirement. In particular, the Official Action alleges that certain limitations in independent claim 1 relate to an embodiment shown in Figure 5 while other limitations relate to an embodiment shown in Figure 6. The Official Action further alleges that the “invention’s disclosure fails to disclose how a combination of these embodiments works in a way to enable one skilled in the art to use the same method.” O.A. p. 3. Without conceding the propriety of the rejection, independent claim 1 has been amended. Independent claim 1 now recites “estimating interference due to the first data stream based on the data symbol estimates for the first data stream” rather than based on the decoded data. Further, independent claim 1 recites “deriving enhancement LLRs based on the estimated interference due to the first data stream and received symbols” rather than on the LLRs for the code bits of the first data stream. In addition, the language regarding estimating interference based on remodulated symbols has

been deleted from independent claim 1. Applicants respectfully submit that independent claim 1 is fully enabled by the specification. In particular, independent claim 1 is supported by, *inter alia*, Figure 5 and its accompanying description. Thus, withdrawal of the rejection of independent claim 1 under 35 U.S.C. § 112, first paragraph, is respectfully requested.

Claims 3–9 and 11 stand rejected by reason of their dependency from independent claim 1. As discussed above, Applicants respectfully submit that independent claim 1 meets the requirements of 35 U.S.C. § 112, first paragraph. Thus withdrawal of the rejection of dependent claims 3–9 and 11 is respectfully requested.

Claims 12 and 14–16

Claims 12 and 14–16 stand rejected under 35 U.S.C. § 112, first paragraph as allegedly failing to comply with the enablement requirement. In particular, the Official Action alleges that independent claims 12 and 16 combine limitations from different embodiments as discussed above with respect to independent claim 1. Without conceding the propriety of the rejection, independent claims 12 and 16 have been amended in a manner similar to the amendments described above with respect to independent claim 1. Thus, Applicants respectfully submit that the arguments above with respect to independent claim 1 are likewise applicable to independent claims 12 and 16. Applicants respectfully submit that independent claims 12 and 16 are fully enabled by the specification. In particular, independent claims 12 and 16 are supported by, *inter alia*, Figure 5 and its accompanying description. Thus, withdrawal of the rejection of independent claims 12 and 16 under 35 U.S.C. § 112, first paragraph, is respectfully requested.

Claims 14 and 15 stand rejected by reason of their dependency from independent claim 12. As discussed above, Applicants respectfully submit that independent claim 12 meets the requirements of 35 U.S.C. § 112, first paragraph. Thus withdrawal of the rejection of dependent claims 14 and 15 is respectfully requested.

Claim 28

Independent claim 28 stands rejected under 35 U.S.C. § 112, first paragraph as allegedly failing to comply with the enablement requirement. In particular, the Official Action alleges that independent claim 28 combines limitations from different embodiments as discussed above with respect to independent claim 1. Without conceding the propriety of the rejection, independent claim 28 has been amended in a manner similar to the amendments described above with respect to independent claim 1. Thus, Applicants respectfully submits that the arguments above with

respect to independent claim 1 are likewise applicable to independent claim 28. Applicants respectfully submit that independent claim 28 is fully enabled by the specification. In particular, independent claim 28 is supported by, *inter alia*, Figure 5 and its accompanying description. Thus, withdrawal of the rejection of independent claim 28 under 35 U.S.C. § 112, first paragraph, is respectfully requested.

Claim 31

Independent claim 31 stands rejected under 35 U.S.C. § 112, first paragraph as allegedly failing to comply with the enablement requirement. In particular, the Official Action alleges that independent claim 31 combines limitations from different embodiments as discussed above with respect to independent claim 1. Without conceding the propriety of the rejection, independent claim 31 has been amended in a manner similar to the amendments described above with respect to independent claim 1. Thus, Applicants respectfully submit that the arguments above with respect to independent claim 1 are likewise applicable to independent claim 31. Applicants respectfully submit that independent claim 31 is fully enabled by the specification. In particular, independent claim 31 is supported by, *inter alia*, Figure 5 and its accompanying description. Thus, withdrawal of the rejection of independent claim 31 under 35 U.S.C. § 112, first paragraph, is respectfully requested.

New Claims 38–68

Claims 38–68 are added by this paper. Support for claims 38–68 can be found at least in the claims as originally filed, and at least at Figures 5 and 6 and paragraphs 0059–0088, for example, of the application as originally filed. Applicant respectfully submits that no new matter has been added.

Independent claim 50 recites limitations similar to those described above with respect to independent claim 1 discussed above. Applicants respectfully submit that independent claim 50 is allowable for at least the same reasons as discussed with respect to independent claim 1. Independent claim 65 recites limitations similar to independent claim 20 which has been identified as allowable. Applicants respectfully submit that independent claim 65 is allowable for at least the same reasons as independent claim 20. Claims 38–49, 51–64, and 66–68 depend directly or indirectly from the independent claims discussed above. Applicant respectfully submits that claims 38–49, 51–64, and 66–68 are allowable for at least the same reasons as discussed above.

CONCLUSION

The foregoing comments made with respect to the positions taken by the Examiner are not to be construed as acquiescence with other positions of the Examiner that have not been explicitly contested. Accordingly, the above arguments for patentability of a claim should not be construed as implying that there are not other valid reasons for patentability of that claim or other claims.

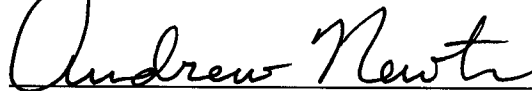
In view of the amendments and remarks herein, claims 1, 3-9, 11, 12, 14-16, 20, 21, 25, 26, 28, 31, and 38-68 should be in condition for allowance. A formal notice of allowance is respectfully requested.

Please apply any excess claim fees and/or Petition for Extension of Time fee, and any other charges or credits, to deposit account 17-0026.

Respectfully submitted,

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